

What is claimed is:

1. A holographic recording material composition used for storing optical information as a spatial variation of refractive index, comprising:
 - (a) a compound having at least one polymerizable functional group;
 - (b) a photopolymerization initiator; and
 - (c) colloidal silica particles having an average particle diameter of from 4 to 30 nm.
2. The holographic recording material composition according to claim 1, wherein the compound having at least one polymerizable functional group has a refractive index of from 1.5 to 2.0.
3. The holographic recording material composition according to Claim 1, wherein the colloidal silica particles are contained in an amount of from 3 to 60 vol% based on the total volume of the colloidal silica particles and resin components in a state of polymerization.
4. A holographic recording medium comprising the composition as defined in Claim 1.
5. A holographic recording medium having a photosensitive layer for recording comprising the composition as defined in Claim 1 on a transparent substrate, and the photosensitive layer covered with a protective material.
6. The holographic recording medium according to claim 5, wherein the transparent substrate and the protective material are made of transparent resin films.